

Datasheet WSERD-534.446

Articlenumber: G8000429

Electronic air flow monitor for mounting on the air duct.

The WSERD air flow monitor is suitable for monitoring fans, control dampers, humidifiers and electric heating registers in accordance with DIN 57100, Part 420 and for use with DDC systems. The air flow monitor works according to the calorimetric principle. The heat extraction by the air flow is measured and converted into the switching value. The sensor contains a heating element and two temperature sensors. A microcontroller controls the heating and measures the temperature differences. It calculates the air flow velocity from the stored calibration curves and transmits the value serially to the control unit. Here, another microcontroller determines the switching behavior of the two relays from the default values of the setting controllers. It is mounted on the duct using the mounting flange included in the scope of delivery.



Adjustable tripping value for flow with fluids	0.2 ... 10 m/s
Ambient temp. for evaluation electronics from	0 °C
Ambient temperature for evaluation electronics	0 ... 50 °C
Bearing temperature	-10 ... 70 °C
Can be read off	No
Degree of contamination	2
Dimensions (W x H x D)	136 mm x 110 mm x 69 mm
Electric connection	Screw terminals
Housing material	Plastic
Included with probe	Yes
Length of sensor	165 mm
Max. Sensor temperature	90 °C
Max. switching current	8 A
Max. switching voltage	230 VAC, 50 Hz
Medium	Air

Medium temperature	?20 ... 90 °C
Min. sensor temperature	-20 K
Number of switching stages	10
Operating voltage	230 VAC, 50 Hz / 24 VAC, 50 Hz / 24 VDC
Potential free switching contact	Yes
Probe integrated in the device	Yes
Protection class	II, following appropriate mounting
Rated impulse voltage	4000 V
Sensor element	Hot film anemometer
Switching contact	2 two-way contacts
Switching difference, can be adjusted	Yes
Transistor output	15...120 s
Wire break or measurement circuit monitoring	20 s
With display	No
With explosion protection	No

